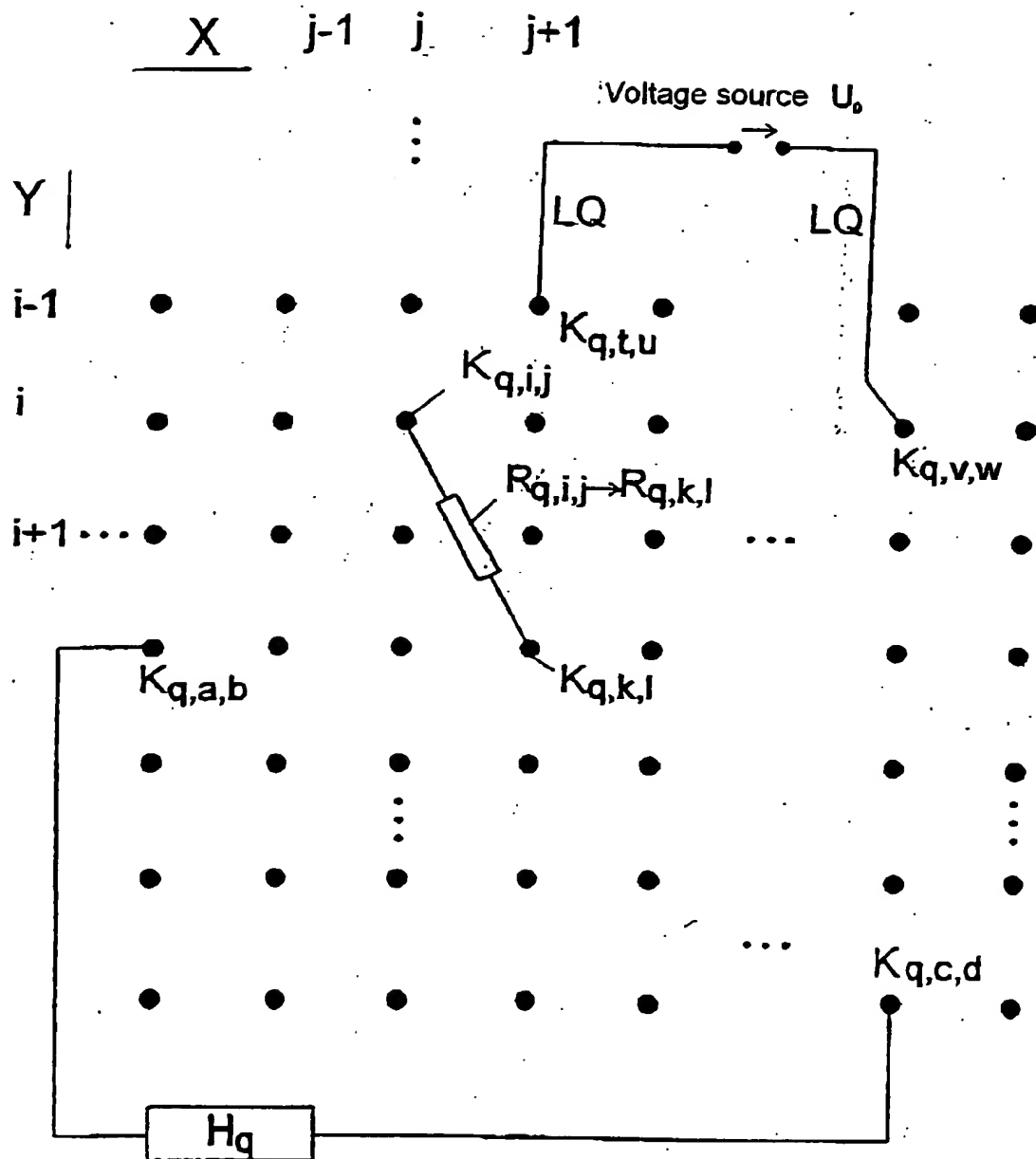


Fig. 1

Shown for channel  $q$



Resistance heater

Fig. 2a

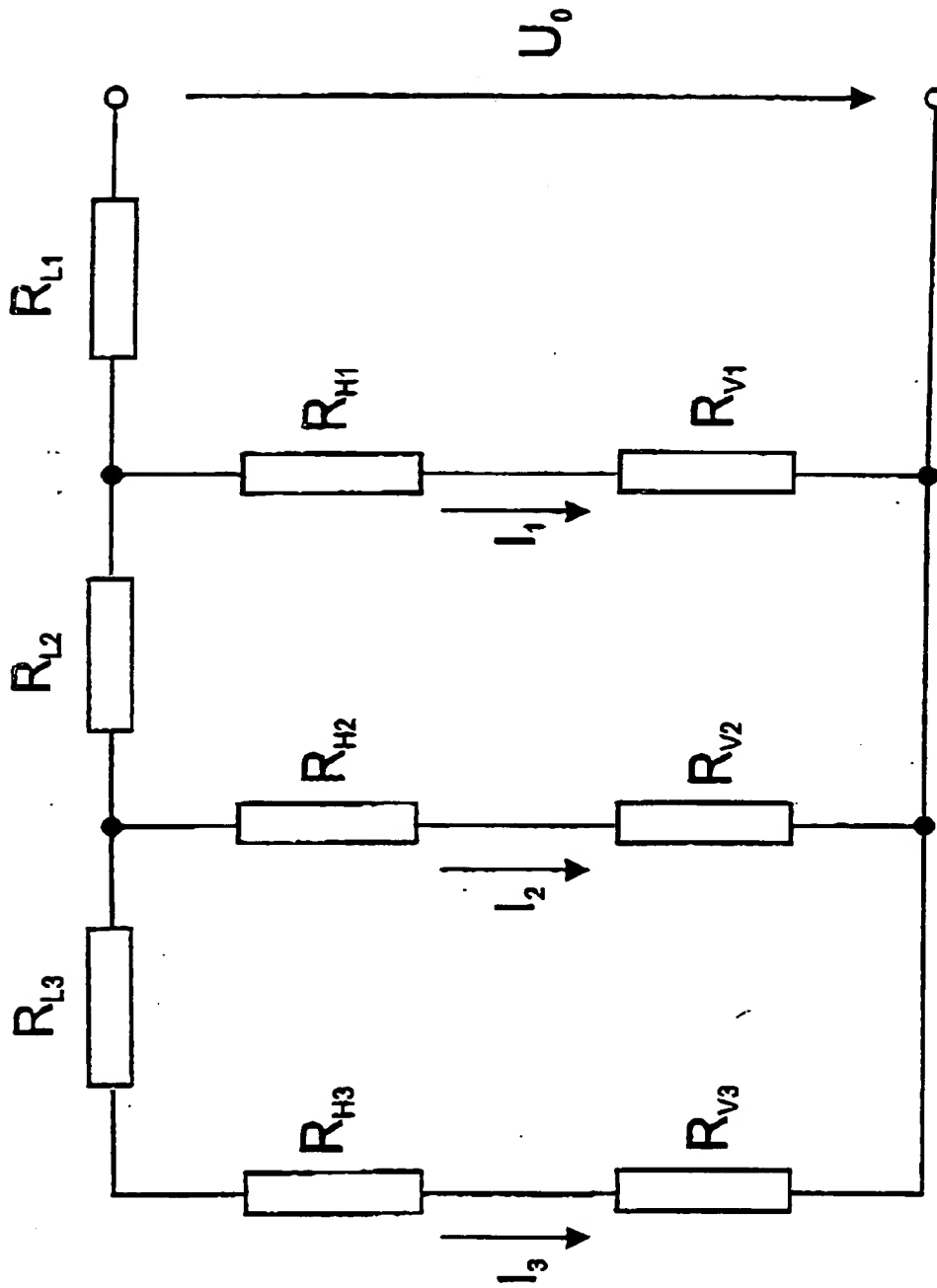
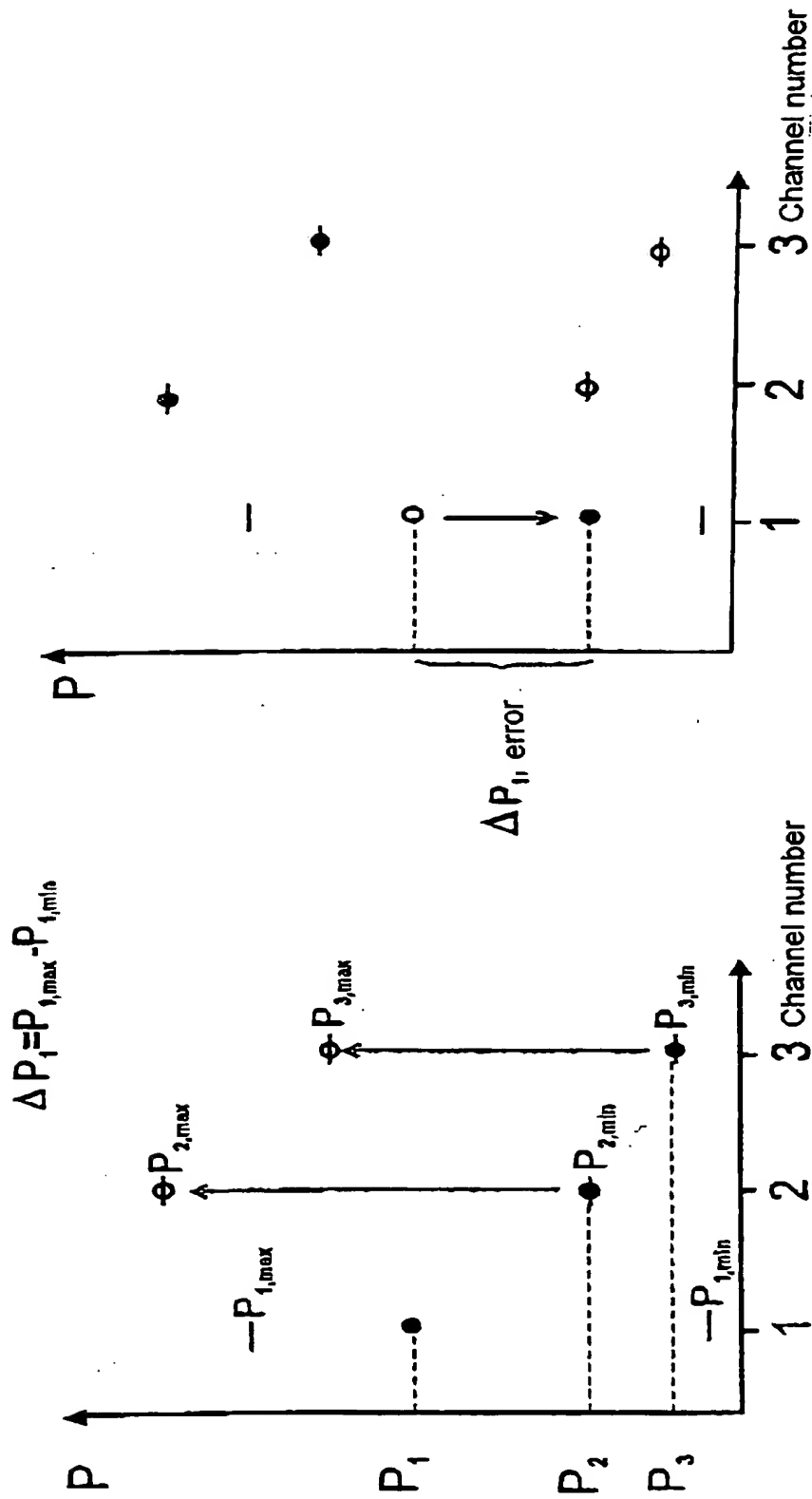


Fig. 2b



**Fig. 2c**

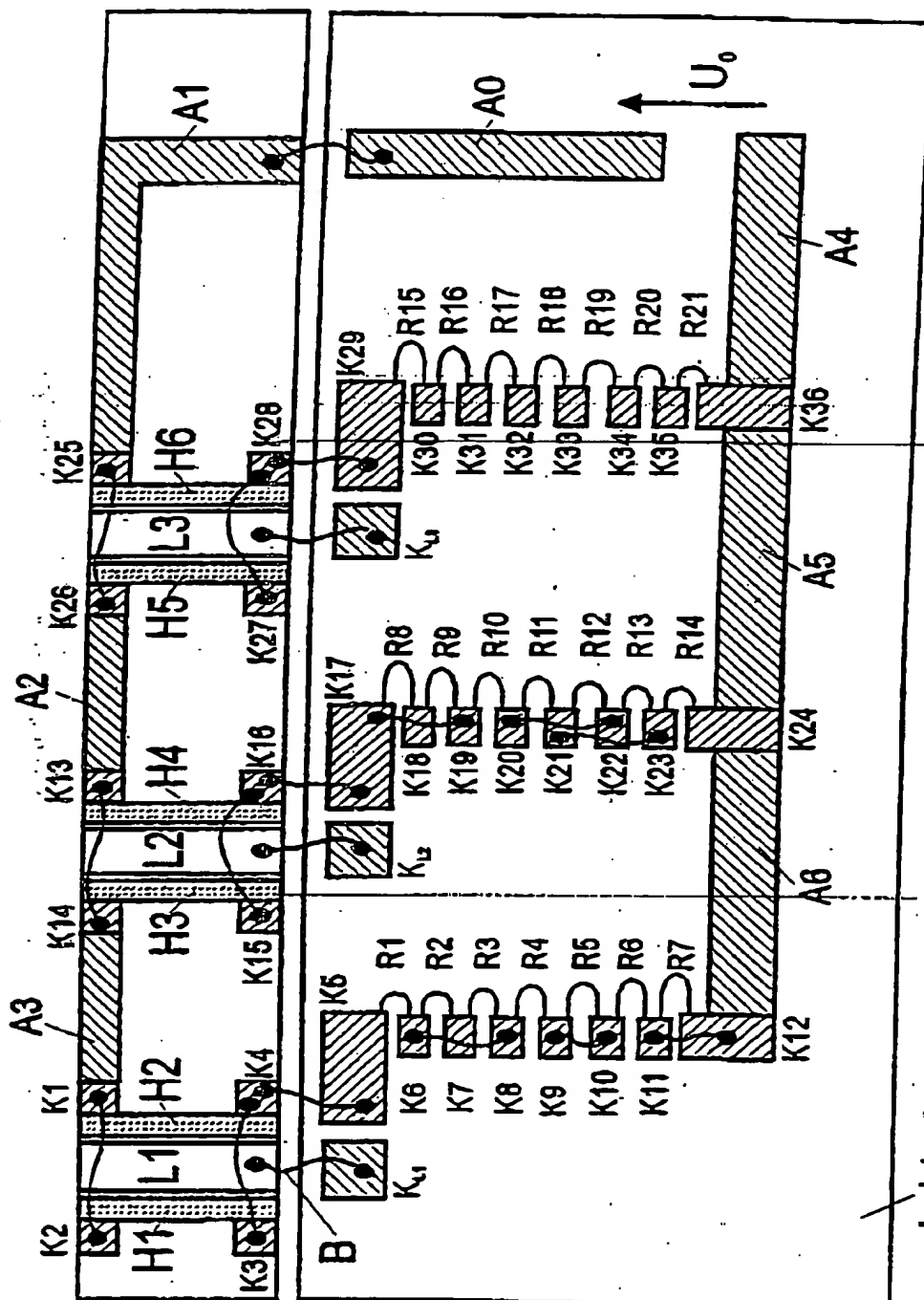


Fig. 3

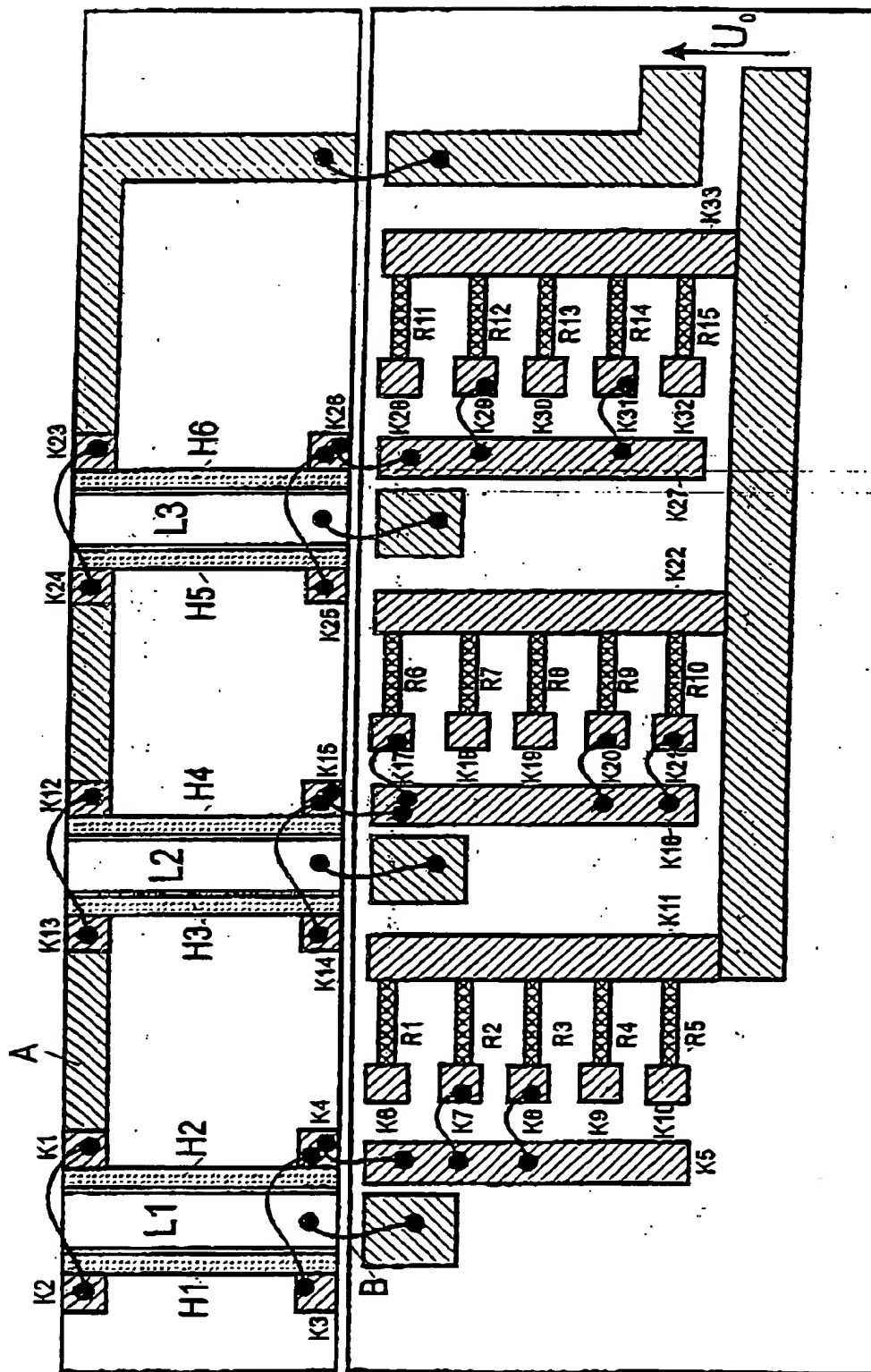


Fig. 4a

Bond Connection B

Relationship between adjusted binary value (index) and heat output

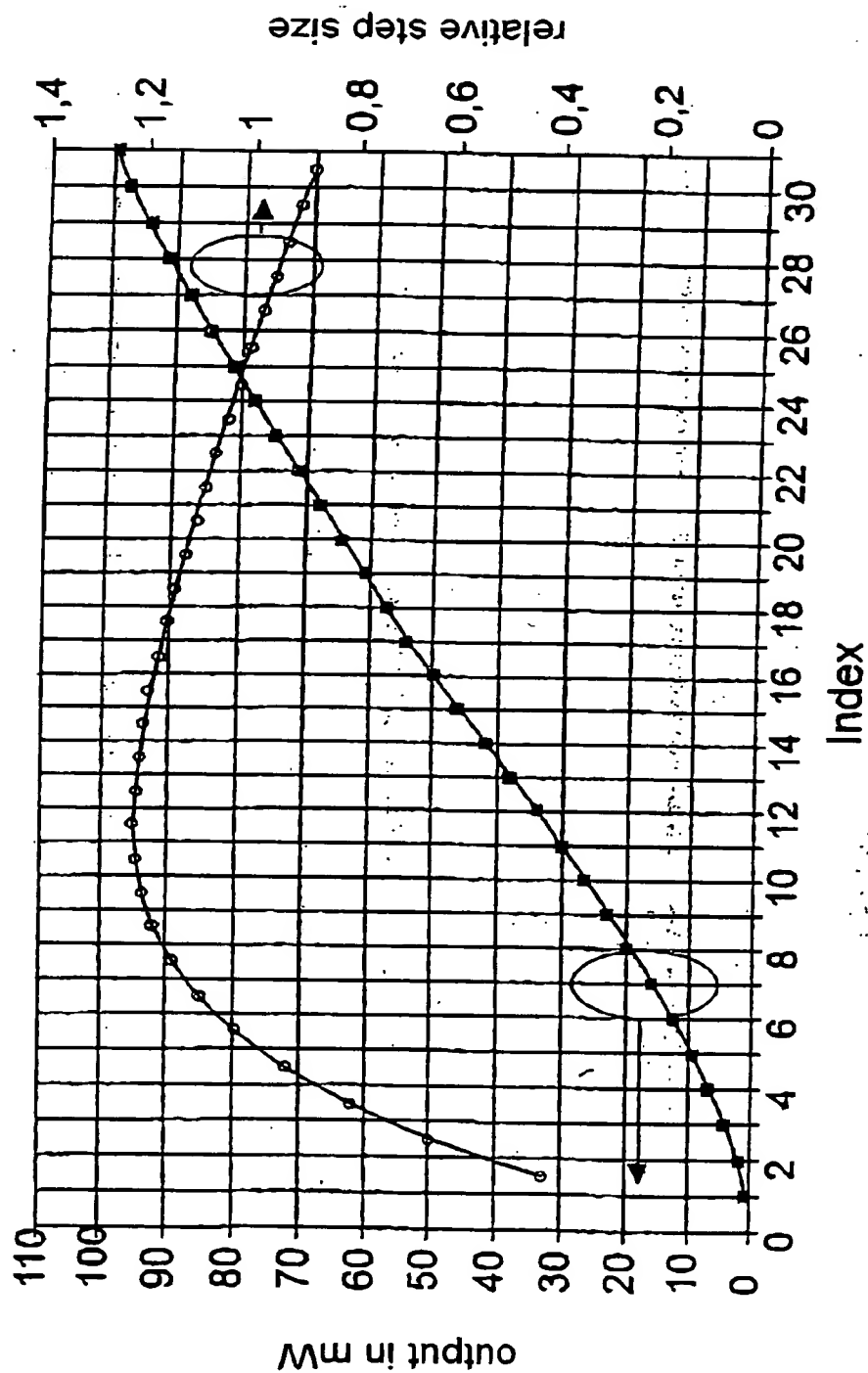


Fig. 4b

Relationship between adjusted binary value (index) and heat output

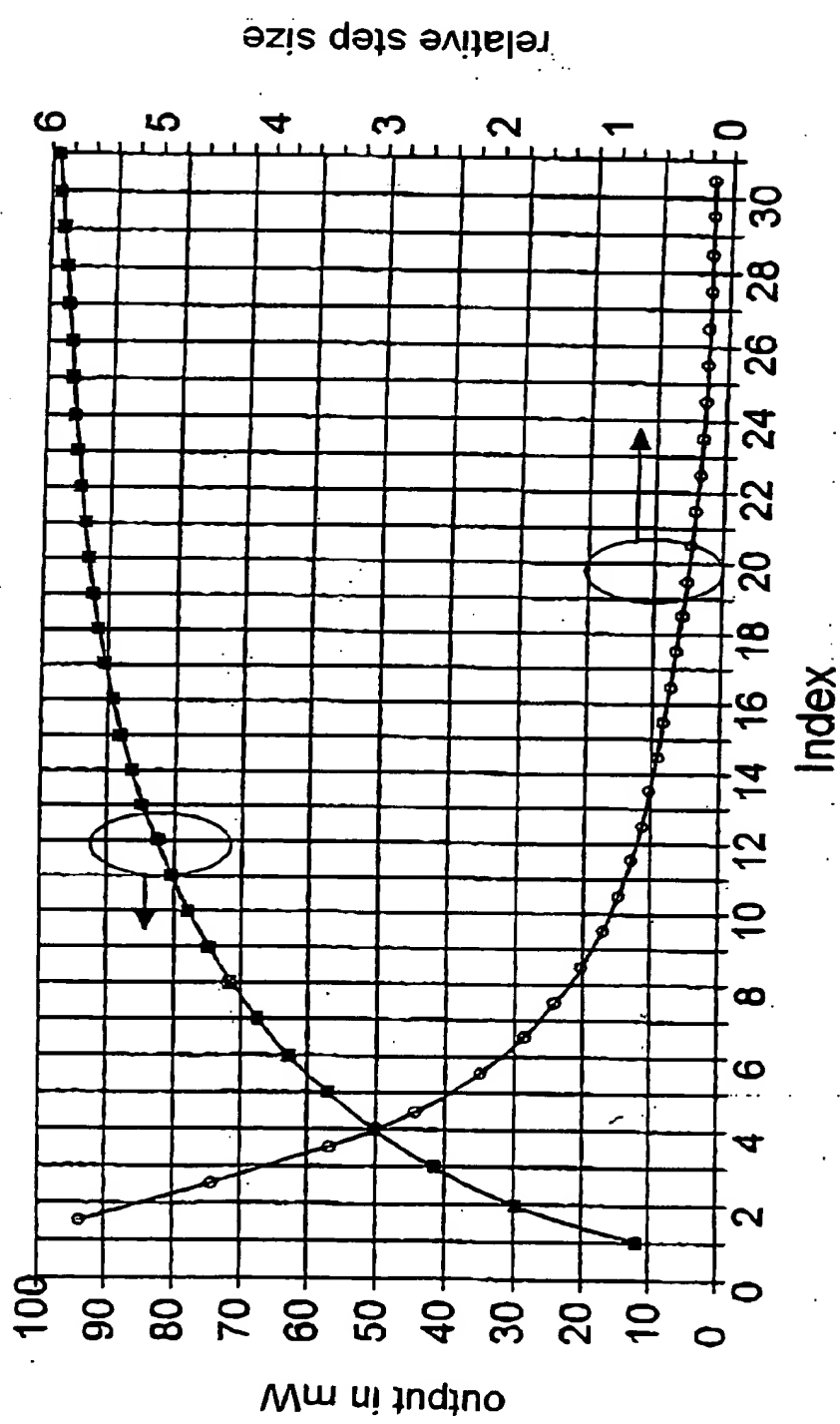


Fig. 4c



005230" 2095550

Relationship between adjusted binary value (index) and heat  
output

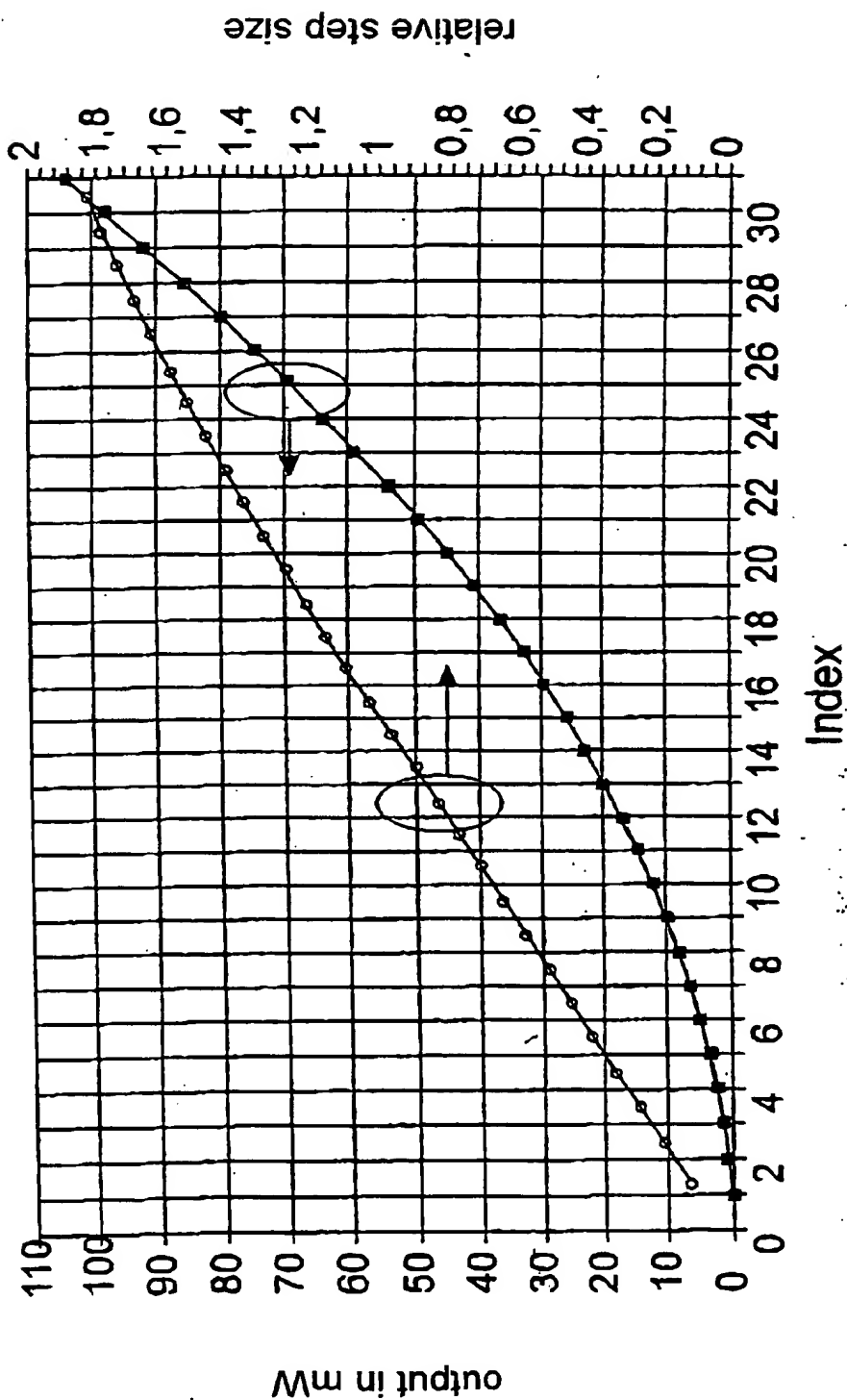


Fig. 4d

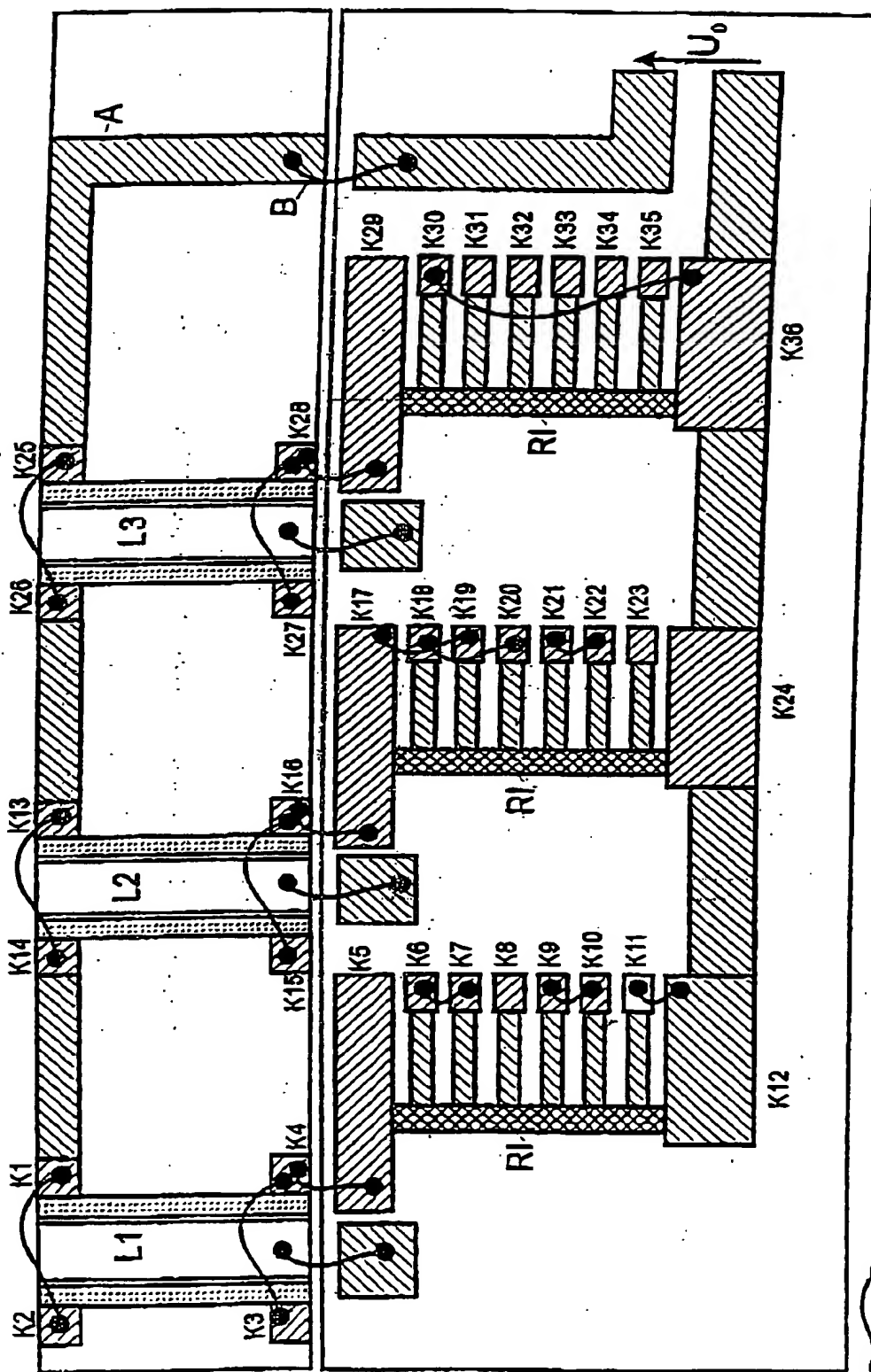


Fig. 5a

Bond Connection B

Relationship between adjusted binary value (index) and heat output for exemplary embodiment 5a

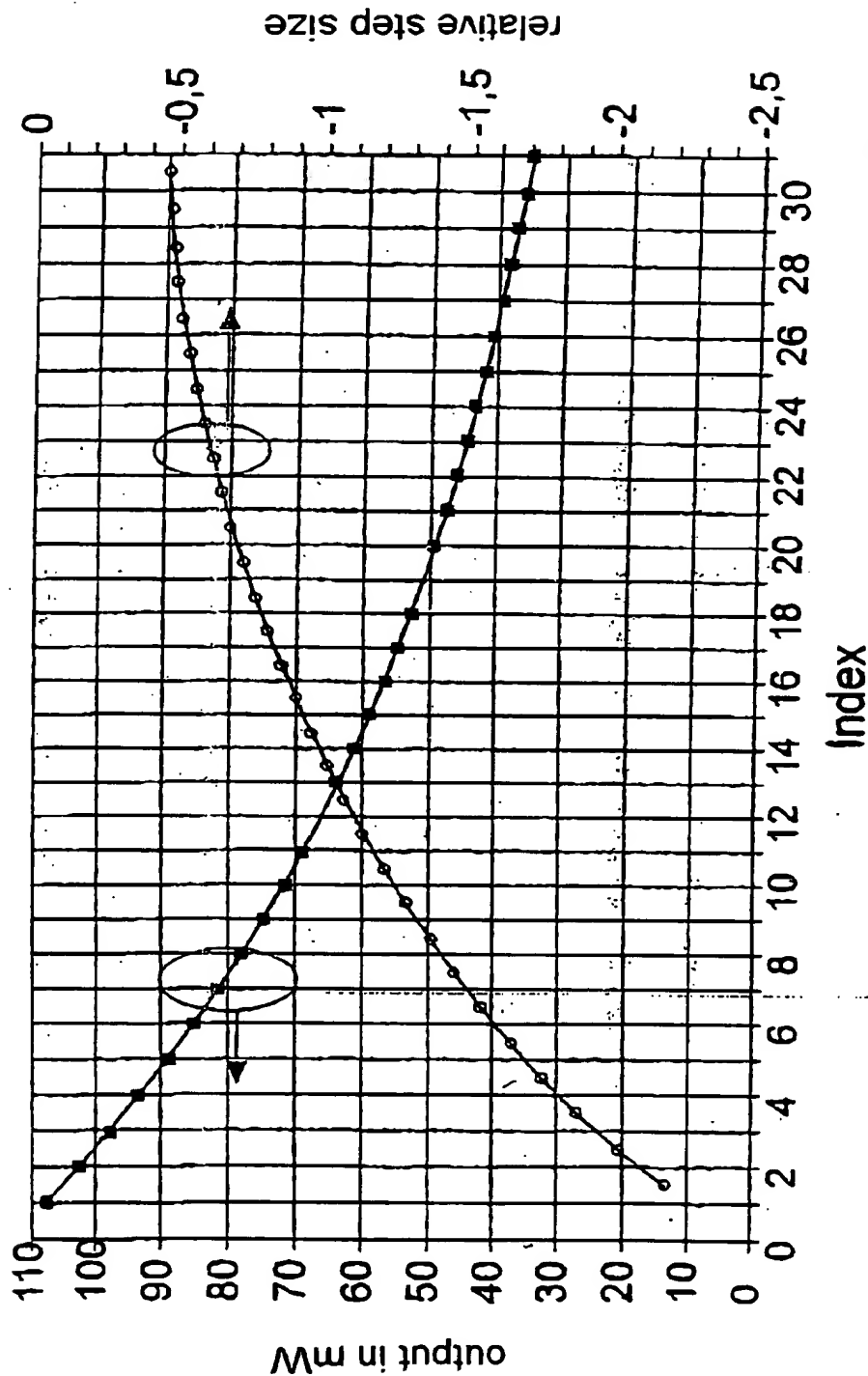


Fig. 5b

005280 20055550

09/555662

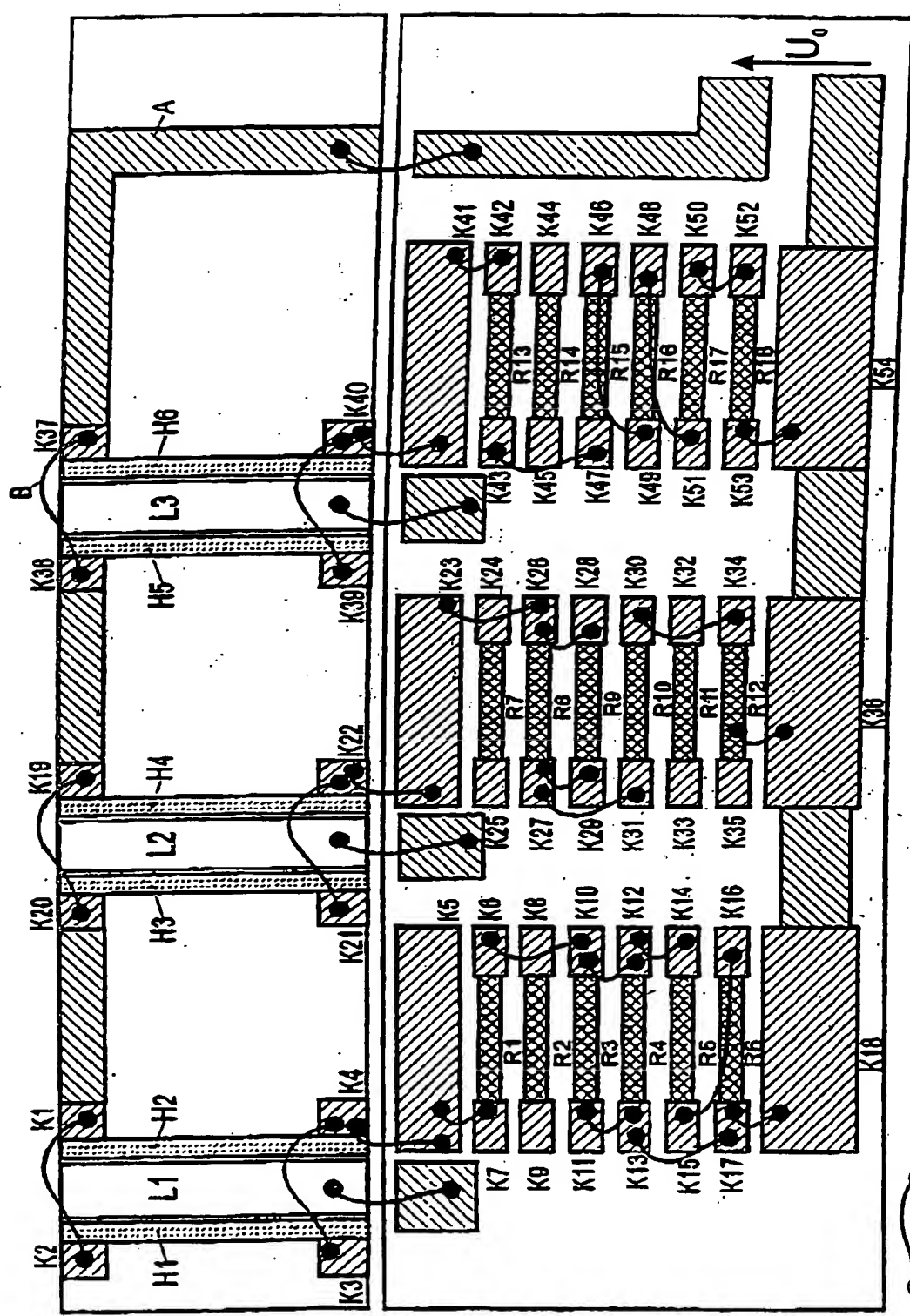


Fig. 6

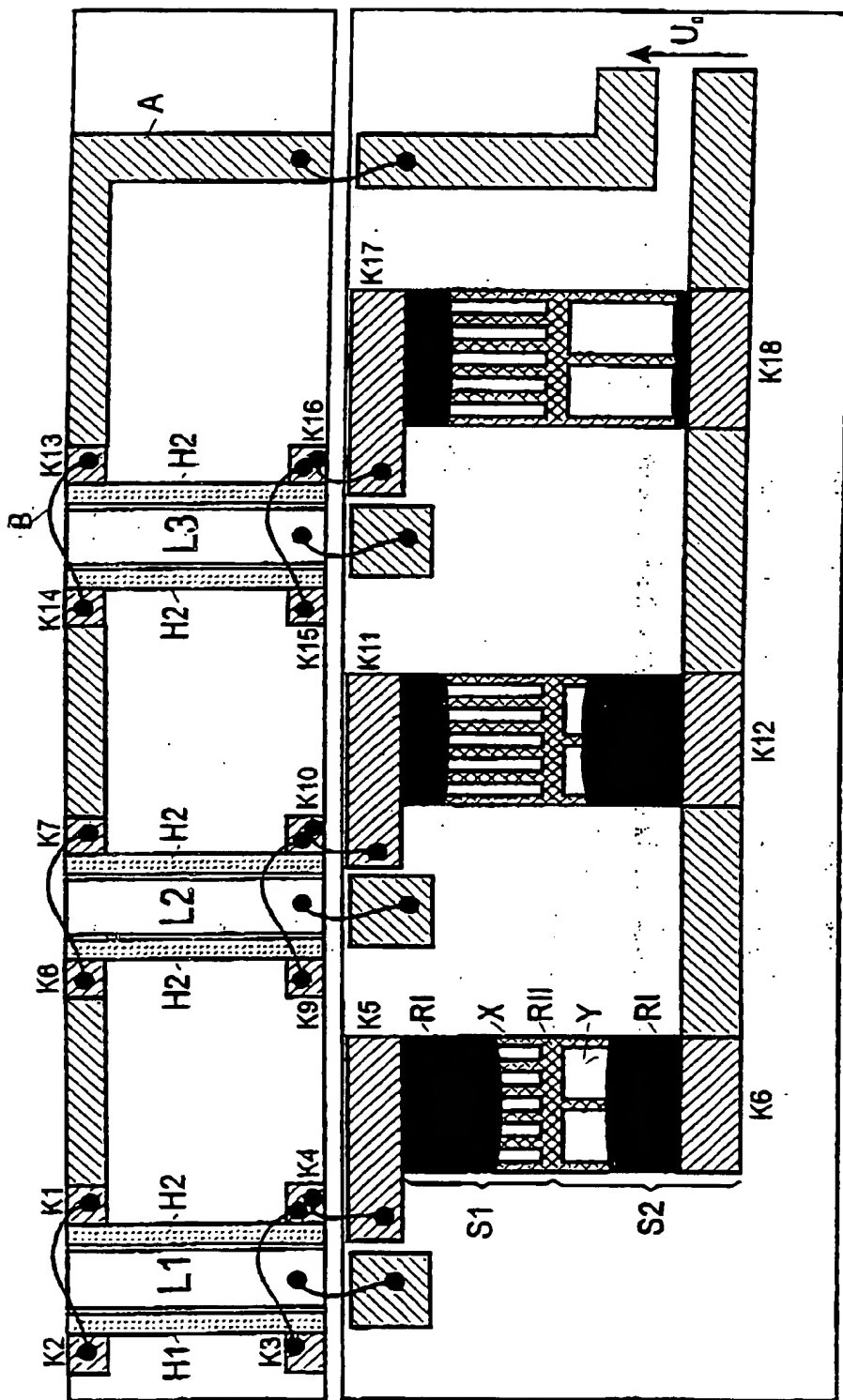


Fig. 7

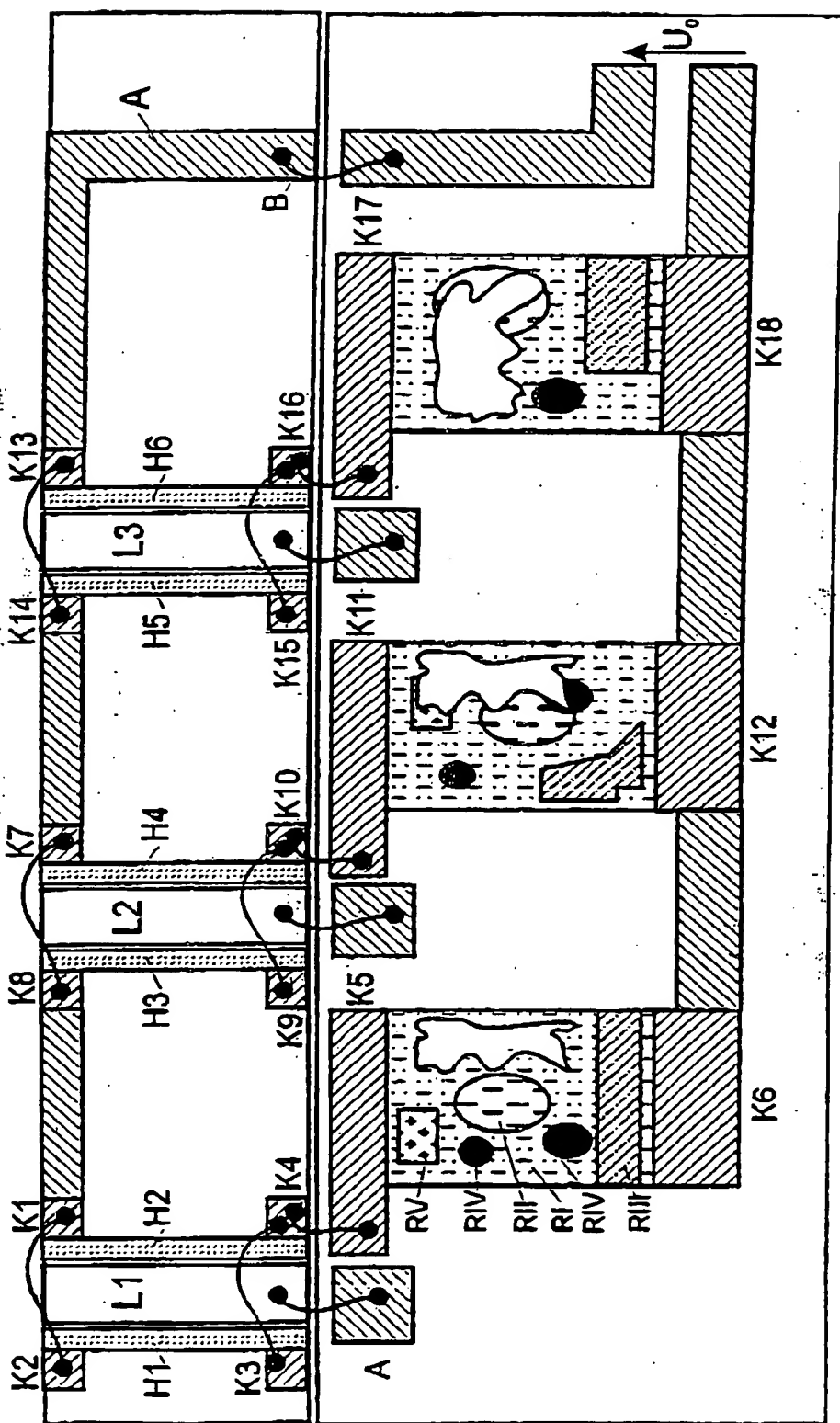


Fig. 8

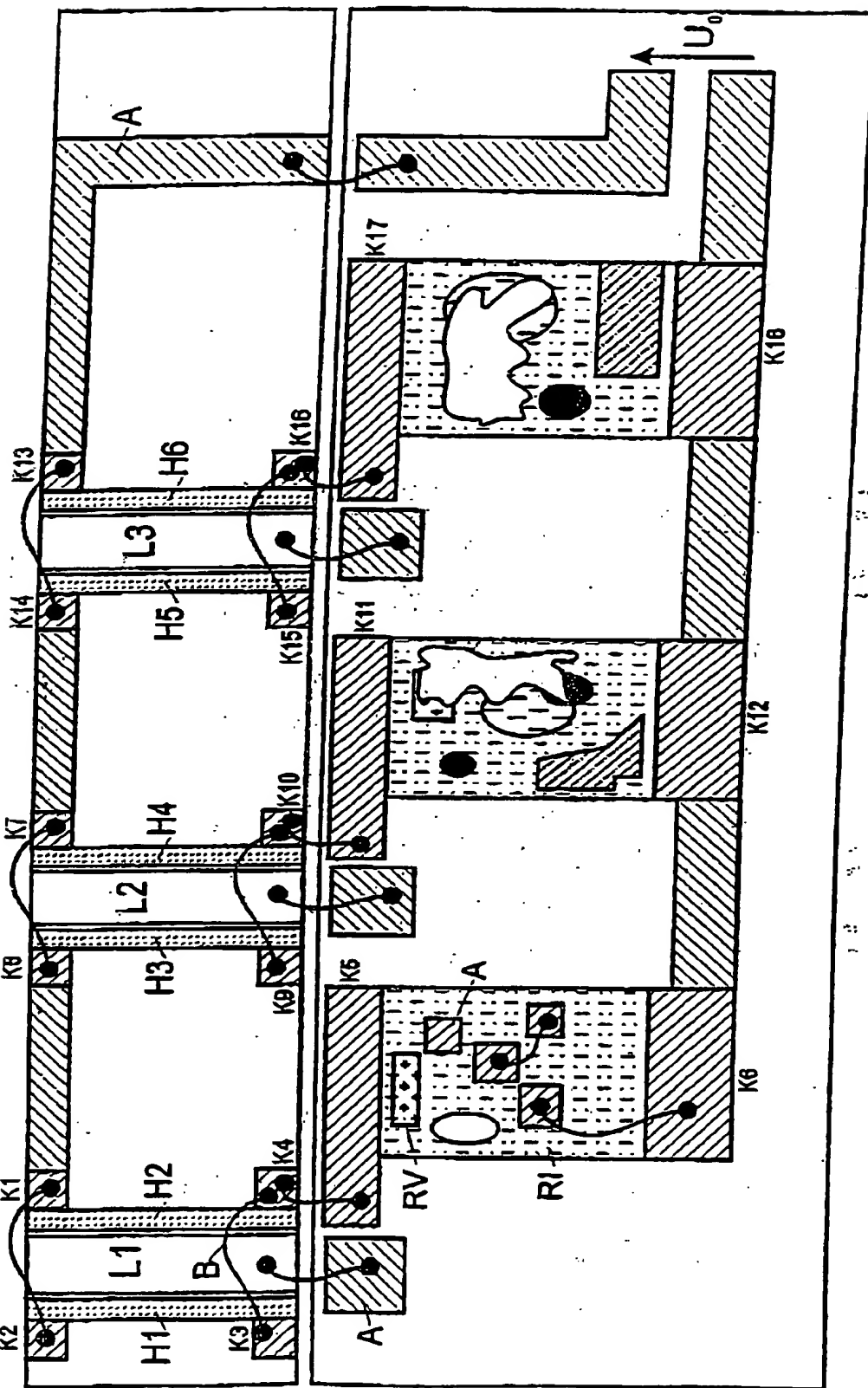


Fig. 9

● Bond Connection B

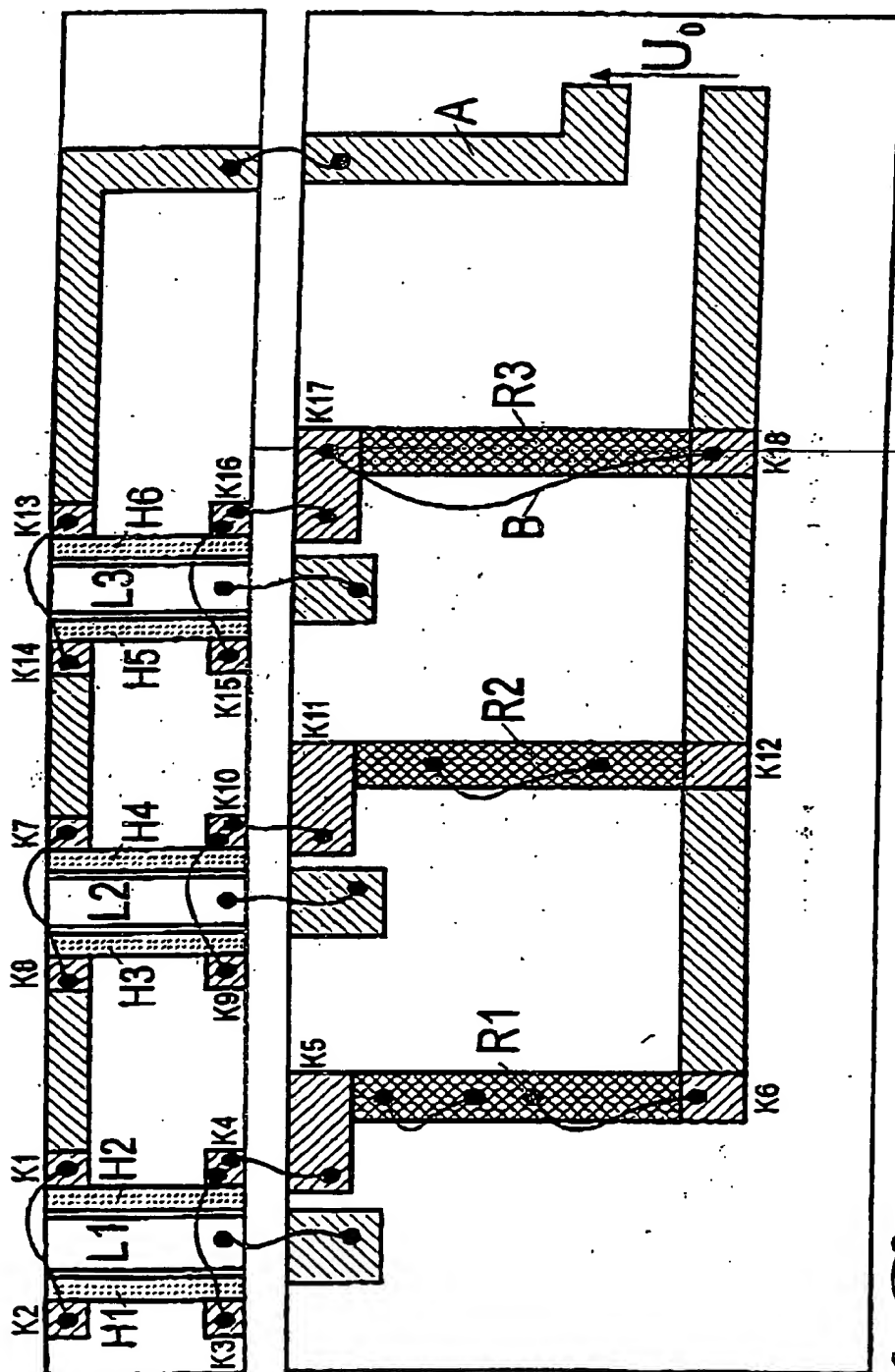


Fig. 10



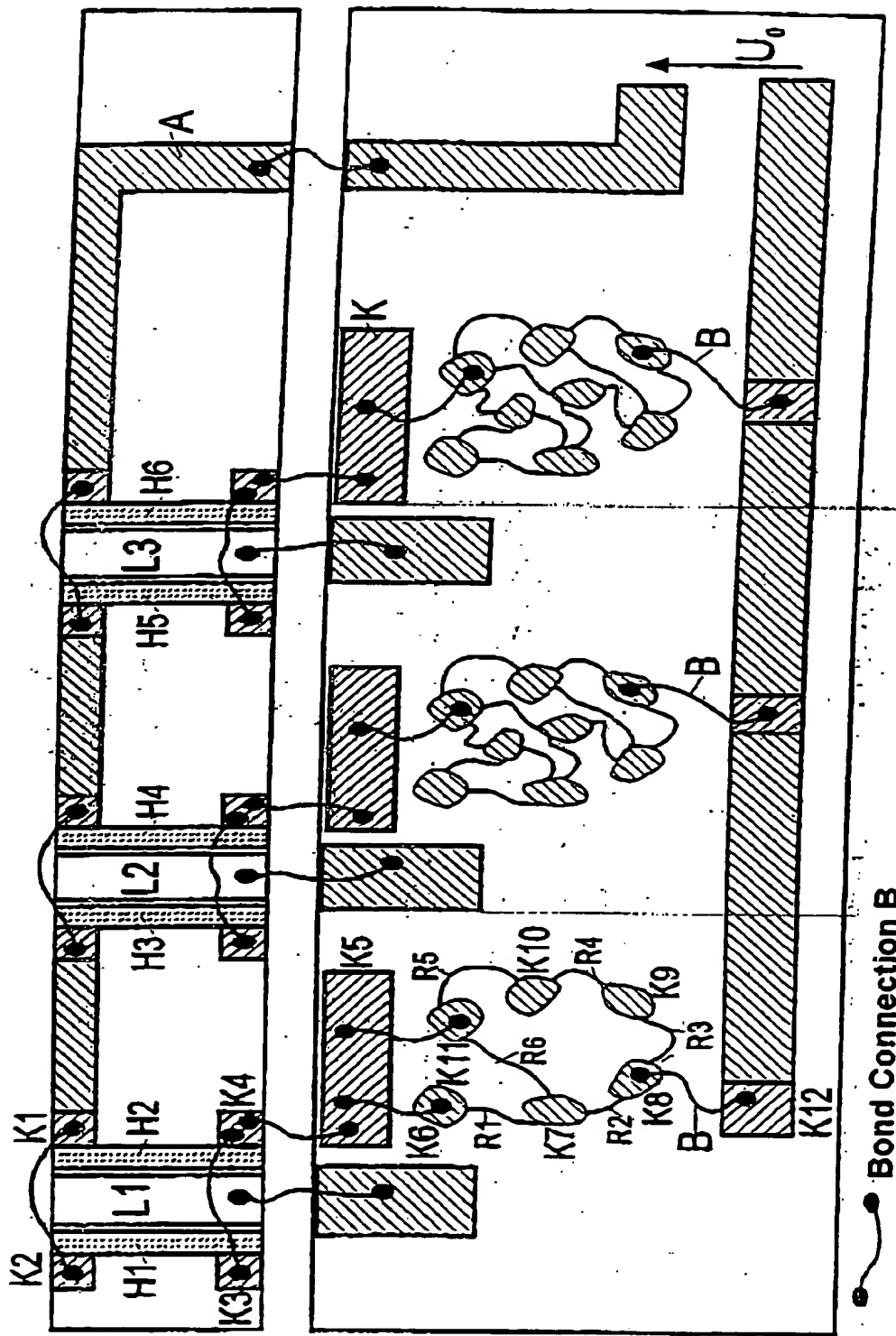


Fig. 11

005290" 20055660

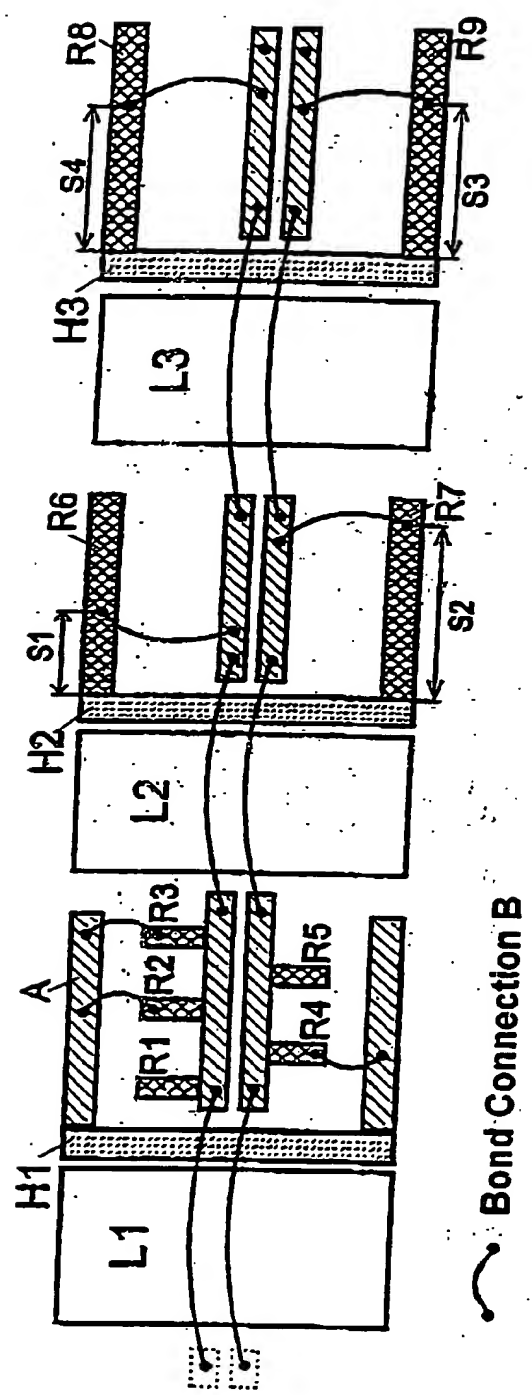
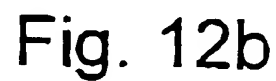
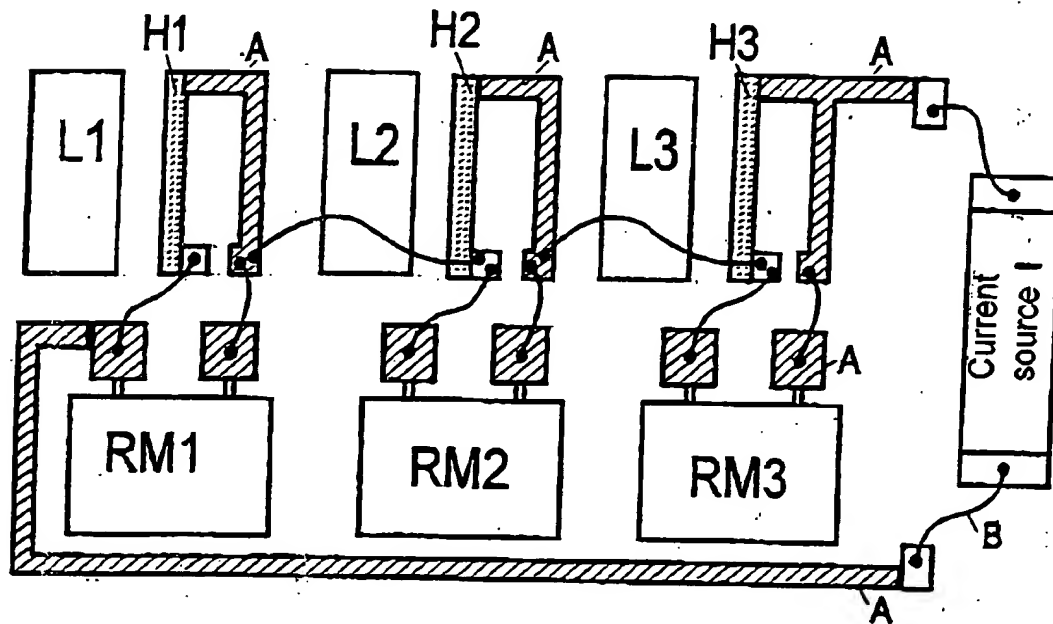


Fig. 12a



# Exemplary embodiment including current source



## electrical circuit for exemplary embodiment

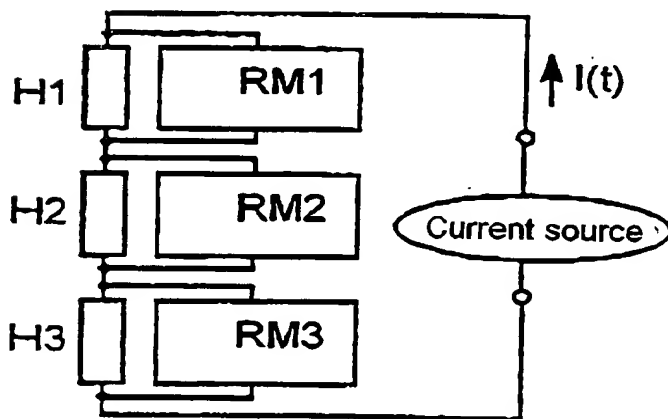


Fig.13